

FROM THE STAFF  
OF FLORIDA SKIP —  
SEASON'S GREETINGS  
TO ALL!!!

# FLORIDA SKIP

VOLUME 14 No. 8

THE ALL-FLORIDA RADIO AMATEUR'S PUBLICATION

JANUARY / 1971

Price 20c

## EX CALLS

This column continues to grow and grow. Have you sent in your ex calls?? Editor.

K4CYL ex W8PGL  
K4CDR ex K1JAF  
K4NE ex W4KMG  
W4DUL ex W8DUL, W3DUL  
W1RU ex W1IKE  
WB4RIS ex WB6GV1, DU7PR,  
K45JXP  
K4JOG ex W2TWQ  
W4ZTK ex W9CZE  
K4CWP ex W3MGZ  
W4AFVG ex W7UPC  
WB4SHB ex W4ISF, J2ISF,  
KL7AAY  
W4BIC ex W4BICDU2, W4CCM,  
W6KGQ, W4PAH, W4VS,  
W2AXL, W4HU, USADP, 9ECK,  
ESA (19-21 bootleg)  
K4EVZ ex W1HIK  
W4ZTG ex W44GDE, W3JZF,  
W8IDJ  
WB4IBW ex W48SVM  
K4QM ex W44ILZ, W3ABI  
K4FCS ex W9LMP  
K4CKX ex K1YXL  
W4GPX ex W1UWY

**CB TAG BILL REFILED**  
OUR MAN IN TALLAHASSEE, State Representative Russell Sykes, WN4QLG, advises that another CB "license-tag" bill has just been filed by Representative Eugene Shaw of Starke, Fla.

This action, which bears the designation of "House Bill 85" would, like its now-dead predecessor, seek to make plates similar to our own available to CBs. No details are available at this early writing regarding conditions or prices but Rusty advises that the bill must be referred to the committee on TRANSPORTATION and fuller details will appear in the next "SKIP". Meanwhile, for up-to-the-minute information, check our FLORIDA DX CLUB booth during the coming HAMBOREE at Miami.

—W4BRB

## FINAL TROPHY WINNERS

According to our Field Day rules, to qualify for a SKIP FD trophy, scores must appear in QST. Congratulations are in order to W4OZF of Miramar (Single Xmtr Class C) racked up 9832 points to take home the Single trophy and W4IZ, North Florida Amateur Radio Society of Jacksonville mustered a smashing 30,098 points, the highest of any Florida Club — ever. (Multi-xmtr class).

As in the past, these trophies and trophies of the Florida QSO Party will be awarded at the main drawing of the Tropical Hamboree, Sunday, January 24th. Congratulations to the winners and who will they be in 1971??

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The 4th ANGLICO, USMCR, Miami, needs trained technicians. For full details about Radio Technician Schools call Gunnery Sergeant Denton (WB4FGL) at 888-7778 or MSgt. Rodriques at the USMCR Training Center on 27th Ave. in Miami, 891-0981.

There are also openings in the Food Service, Motor Transport, Supply, Administration, and Radio Operator fields for both veterans and new enlistees. In other areas check with your nearest Reserve Unit for details.

## COMLAB:

(An Experiment in Communications)

By Bob Grove, W44PYQ

The Science Museum and Planetarium of Palm Beach County is embarking on a unique project which should be of considerable interest to local hams and SWLs as well.

Relying upon the donation of receiving equipment by individuals and local firms, we are initiating a communications

(Continued on Page 12)



AL ELMORE, W44RGO (left) received the "Award of Appreciation" from the Florida Sidebanders Association from Vance V. Vogel, W4OVE on November 9th at the Brandon Amateur Radio Society club meeting. Congrats OM, keep up the good work.



PEOPLE CHANGE, but HAMFESTS don't. This photo was taken at the Ojus Hamfest in 1937 L to R: Dick Smith, W4DRD; Vance Murr, W4FWI; Bill Long, W4IM and Bob Toms (call unknown) all of the Miami area. FWI helped mail the SKIP you are now reading. All are still active on the air.

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EDITOR — Andy Clark W4IYT  
P.O. Box 501 — Miami Springs, Fla. 33166  
Winner of Seventeen National ARNS Awards  
BUSINESS MGR. — Betty Clark, W4GGQ  
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Box 501, Miami Springs, Fla. 33166

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#### CLUBS

Broward ARC, W4GDK, Ft. Lauderdale  
NFARS, W4UFW, Jacksonville  
W. Fla., W4RKH, Ft. Walton Bch.  
FLORIDORA, W4BAV, Sarasota  
Orlando ARC, W4BKC, Orlando  
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#### FROM HERE'N THERE

When are you going to quit using Hertz and go back to "cycles," like it should be? W4VTA, Loxahatche, Fla. . . . How about a power multiplex for Florida QSO party? Wouldn't miss Florida Skip for anything. W4KJV, Rockledge. . . I enjoy your paper but I don't appreciate the way you edit our Navy MARS column. K4AOB, Leesburg. (See NOPJQ about that OM) My pet peeve is BREAK BREAK BREAK BREAK BREAK and no identifying call letters. K4CWP, St. Pete. . . . A store house of good information. Keep up the good work. W4BMC A2Z, Lake Worth. . . The HAMBAR really works. W4DK, Ft. Lauderdale. . . Best ham paper there ever was. . . K4QCG, St. Pete. . . (Thanks for all your comments gang. AC)



## Letters To Editor

Editor,

Why not bring more factual info — discuss Fla. propagation conditions, DX possibilities, print a radio great circle chart of the world centered on Fla. (Orlando for example) in your magazine. Discuss Fla. ham products — Gotham, Signal One, etc. — or print a circuit diagram of a simple speech compressor that does not negatively influence modulation. Discuss good Fla. sources of electronic equipment for home brew rigs (we have a lot of gov. surplus stores other states do not have).

Instead you discuss how W4BSH dropped his steak during the last Flea City ham convention and how the XYL got the grease spots out of his pants!

Very sincerely yours,

Frank Feldhaus WB4OTB  
Rt. 3 Box 392  
Vero Beach, FL 32960

(Editor's Note — Thanks for comments. We can't possibly compete with CQ, Ham Radio, 73, QST and the callbook. We rely on material sent to us by our readers and correspondents, no time at this office for the kind of research you mention. We would be glad to print such items as space permits, and we also pay \$5.00 for each simple technical article printed. We are a cheap outfit, all work done at this office is for free, supposedly in our spare time although it doesn't always work out this way. We think SKIP is still a good bargain for \$2.00 a year. 73 — W4IYT & W4GGQ.)

Editor:

May I express my appreciation to the many amateurs for their messages and offers of assistance in the past.

It has been my privilege to meet, via the airways or personally, many of the members. They are a group set apart.

May the ranks continue to grow through the efforts of the Clubs, in the interest of young and old in this fine organization.

As a non-amateur I have derived many hours of pleasure, particularly since retirement here in Florida.

My compliments on the excellence of FLORIDA SKIP.

Very sincerely,

Mrs. Charlotte B. Horns  
Miami, Fla.

Editor:

Think enclosed renewal plus two new subscriptions emphasize my enjoyment of Florida Skip, enough said.

I don't like Hertz as a designation for Cycles either, but my PET peeve is the Ham(?) who sends 15 to 30 (count 'em) CQ's before identifying.

Am presently — 19.45 Z, 10-8-70, listening to 50.19 (plus or minus 5 kc) to fair volume music, can't tune SSB and can't clear up on AM. It lasted nearly 1 hour. Explanations anyone?

M.A.R.C. The Manatee Amateur Radio Club meets in Red Cross Headquarters, 2614 Manatee Ave., West, Bradenton, at 7:30 local time on second and fourth Mondays, visitors are most welcome.

73

Norman Rosedale, WB4HZE  
Anna Maria, Fla.

Editor:

On 3 January 1971 at 3 PM I will be demonstrating telephone-teletypewriter communication for the deaf at Deaf Zion Lutheran Church 15000 NW 27 Ave. Miami, Florida.

I am hoping that RTTY amateur radio operators will attend this demonstration. There are well over 1000 telephone-teletypewriter installations for the deaf throughout the United States, but as yet none in the South. In order for the deaf to establish their own teletypewriter network there must be some assistance from RTTY hams and other interested hearing persons who have some time to spare for this worthy cause.

If you, or any other Miami area RTTY hams, can be at the 3 January demonstration, I can give you a better idea as to what telephone-teletypewriter communications for the deaf is like. By-the-way, yours is the only name I have from the Miami area, so if you are not able to make it to this demonstration please pass this letter on to any RTTY hams whom you might know.

Thank you for your help.

Sincerely,

C.A. Argile, Bell Labs.  
Holmdel, N.J.

(Editor's Note: This letter was sent to W4YF in Miami. How about a good turn out Jan. 3rd. These people need help!)

#### GUEST EDITORIAL

By Don Copeland, W4CII

A most ingenious invention by man, that of time. Even so, his earliest days were regulated by tree shadows cast by prehistoric sunlight. In modern times, he marks a change with celebration, reflects upon time past, and looks hopefully to the future. The old year, bewhiskered and aged, dies; while his replacement is a heralded babe, symbolic of new attitudes and progress with a fresh outlook.

The "Soaring Seventies" got off the ground in fine fettle. Hertzian wave generators took on new shapes, and new heights. Amateur radio soared within the void, a second journey of our art and craft to the doors of the exosphere. Yesterday had built well for the tasks of tomorrow.

Amateur radio technology is just beginning to move out. Solid state equipment, more efficient antenna systems, and the diffusion of ideas through improved publications are effective in getting hams to try emission modes and bands many have never explored before. Moon-bounce — communications satellites — meteor burst — ionized layers — tropo — FM repeaters — LF & VLF — LASER — the list grows as each new year is loudly turned on.

Watch 1971 closely. Amateur radio has always made progress,

(Continued on Page 15)

The publishers of this paper do not assume responsibility of statements made by their advertisers in business competition. All signed articles published in this paper represent solely the individual opinions of the writer and not those of FLORIDA SKIP.

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Any news in FLORIDA SKIP may be reprinted in any other amateur radio publication in the world with a credit line EXCEPT CARTOONS by WIGSI 4. Written permission from the editor must be obtained before reprinting the cartoons. — Editor

Dear Nabel KYL Award, c/o Skip, Box 501, Miami Springs, Fla.

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ARMY MARS, No. 1 K4AZ

ARMY MARS, No. 2 WA4IHH

A.F. MARS, J.H. Hopkin, WB4BND, Caro City

#### DX-1 POSTON 84EXT

#### NETS

FMTN, W4LSR, Orlando  
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TPYN, W4SMK, Ft. Myers  
GN, W4IA, Orlando  
FAA, W4ER, Sebring

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## TRANSMITTER SPECIFICATIONS:

- Power Rating: 550 watts, P.E.P. Input, 360 watts CW input, 125 watts AM input. Two 6LQ6 P.A. tubes.
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OUR GUEST editorial this month is by Don Copeland, W4CH of Palm Bay. Don is also editor of Platinum Coast ARS publication, member of the Amateur Radio News Service (ARNS) and writes the PCARS SKIP club column. Thanks Don and keep up the good work.

(Photo by F. Rodziewick)

## FLORIDA PUBLIC SERVICE CORPS

By Ken, W4SMK

All Florida Emergency Coordinators should have received copies of the Simulated Emergency Test information by now. If you have not please contact W4KGJ and ask him to send you a copy since John has requested additional copies from ARRL. The SET is scheduled for Jan. 30-31, which is the week and following the Miami Hamboree.

It is most important that all EC's not only participate in the SET, but in addition that they take the trouble to send the required report into ARRL before the stated deadline so that the E. and W. Fla. Sections can both receive the maximum credits. All ARPSC members are urged to participate in your local nets and/or drills. If your area has no organized AREC you can help on the State phone

or CW nets since the NTS has an important place in the SET.

In addition to the annual SET report and the annual EC report, both of which go to ARRL (with a copy to the SEC, please) we must impose upon our EC's a bit more and ask all those who have not sent in a form 5 monthly report to W4KB (W. Fla.), or W4SMK (E. Fla.) to please do so for sure for December 70. If you do all this you will really be starting the New Year off right in helping keep Fla. on Top in the public service game.

Fla. sneaked by another hurricane season without a major storm once again. We are thankful for this, but some areas of the State have now gone so long without a real communications emergency that we have some real doubts about the condition of readiness here. Drills and meetings are dandy, but there is no substitute for a real scare to sort of wake us up and point out the weaknesses in our radio nets and other communications. Sure, we look pretty good on paper, but until the real thing happens, we really can't be too cocky can we?

ARRL sixty, and don't forget the SET and those reports gang.

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## NAVY MARS

By Bonnie Wieboldt  
NOPJQ WB4FSF

Members were very busy during the month of November handling the Thanksgiving "rush" traffic. Now, we are busy with Christmas messages.

November was a busy month for the personnel at NOQMC (NAS Cecil Field, Jacksonville). They recently moved into their new building, and plans are for an elaborate antenna system, which should improve their already booming signal. Plans are also being made to run schedules with Guantanamo Bay Cuba.

NOQKH and NOQMC are setting up RTTY gear.

NOPHN and NOLNB, have been working on URC-40 2 meter rigs, and are attempting statewide communications on this band.

Congratulations to NOIAM and NOZTC, Communicators of the month for North Florida.

We were sorry to learn of the illness of Joe, NOAIL who was active on both the phone and cw nets. His doctor advised him to slow down his radio activities. We extend our best wishes for his recovery so that he might return soon.

Any suggestions for improvement or news for this column is welcomed by this writer.

## 1971 RECIPE FOR LIVING

First take a sense of humor  
And break seven dull days  
Into a bowl of sincerity  
Pour on honest faith  
Stir in a pinch of sunshine  
One-half a dash of courage  
Flavor with your own brand  
Of intriguing charm  
Then add all the spices of people  
The salt of the earth  
Mix well with laughter  
And merry mirth.  
This recipe for living  
If measured just right  
Will bring excellent results  
All the days of one's life.

Author unknown

Submitted by Ed Kane, K4MAS

## AIR FORCE MARS

By J. R. Hopkin, Jr. WB4BND

For a change I have something nice to report to you. The new frequency just above 40 meters (7316.5 LSB) is off to an excellent start. It operates seven days a week from noon to 2 PM local time. Each week it has been in operation they have doubled the number of participating stations. The net control station is AFC4LBM in Decatur, Georgia and he has a fine signal into all states in the Region.

Traffic is picking up as the Base stations have found this ready outlet for their daytime traffic as well as the regular traffic being speeded on its way without having to wait for the night time net. If you get a chance, at least monitor the frequency and enjoy some of that interference free communications for a change. As you know, the night frequency is not the best with the RATT and FAX constantly bothersome. It is a good way to boost your participation time as well as help out during the holiday increase in traffic.

There is no better way that I know of to get the Holiday Spirit than by relaying someone else's wishes along to a loved one.

## SILENT KEYS

It is with deep regret we report the passing of the following amateurs:  
W4CGG — William H. Butts, Sr., Jacksonville  
W4LHP & W2QXH, Gerald E. King, Nobleton  
W3YA, Gil Crossley, State College, Pa.

## FREE TO OUR SUBSCRIBERS

1971 — 5 color post card-size calendar FREE to our Florida SKIP members. Send a self addressed stamped envelope to FLORIDA SKIP, Box 501, Miami Springs, Fla. 33166. Yours will be mailed promptly. First come first served. Editor.

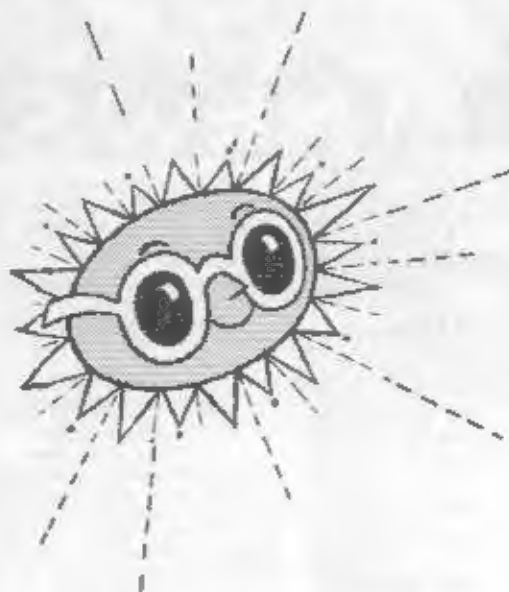
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A.R.R.L.

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January 23 & 24, 1971

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EXHIBIT AREA  
(as of December 10)

Swan — Amateur Wholesale Electronics — ETO — Communications Equipment Co. — Collins — Heathkit — Fla. DX Club — ARPSC — ARRL — Amateur Radio Center — Pearce Simpson — Century Electronics — Floridors — Ham Radio Magazine — Army, Navy, Air Force MARS — Southeast Repeater Assn. — Hallicrafters — DRC Info. Booth — Hamboree Swap Shop — Fla. Skip

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Saturday Evening — 8 PM  
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Ice & Set-ups at nominal prices

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Special Hamboree Rates: Single \$13.00, Double \$16.00, Suites \$24.00 and \$28.00.  
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Sunday, 10 AM, Early Bird  
Sunday 3 PM  
Grand Finale Award

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### PROGRAM HIGHLIGHTS (Tentative as of December 10)

The Teletype Machine — George Masterson, W4UAA  
Pan-Am World Airways Comms. Dept.  
The American National Red Cross  
National H.Q. Representative  
Swan and Navassa Island DXpeditions  
Enos Schera, W4VPD  
Florida DX Club DX Forum & program  
Technical Session  
Lew McCoy, ARRL H.Q.  
Southeast Repeater Assn. Meeting  
Floridors Luncheon  
QFN Breakfast  
Wouff-Hong Ceremony — QCWA  
Southeast Florida Chapter  
Quarter Century Wireless Assn.,  
All Chapter Open Meeting  
Friday Night Eye-Ball QSO Party  
Everglades — Free Coffee & Pastries  
Joint MARS Open Meeting  
RACES — Charles Walters  
How to Protect Your Equipment From  
Theft — Sam Furer, Century Electronics  
FDXC Annual South Florida Meeting  
Army, Navy, Air Force MARS Members Meetings  
League Officials Meeting  
Florida Sidebanders Breakfast  
ARRL Open Forum  
Dale Strieter, W4DQS, Division Director

Convention Committee

Dade Radio Club

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# CLUB NEWS

## NOFARS NEWS

By Billy Williams, WA4LFW

NOFARS wishes to everyone the very best in 1971 and hopes that you had a nice Xmas. Santa Claus brought lots of goodies to many hams in our area.

Jim Laughter, WB4POB, is sporting a new Heathkit keyer and yours truly a new Heath SWR Bridge-wattmeter.

NOFARS held its election of officers for 1971 in November. Elected President was John Sheffield, K4KLW. Vice-President is Bob Gorman, W4ZTW, with Dee Barkley, WN4RCT, as Secretary. Al Merritt is the new Treasurer (WB4FSG). And Tony Bernard, W4BRZ, was picked as the Activities Manager.

Several members were active in the Sweepstakes. WA4LFW totaled 112,000 points in the fone section and 26K on c.w. Also active were WB4POB, WB4IAE, and WB4LEQ.

W4FDA, manned by WB4IAE, and WB4EYX scored big in the CQWW fone test. They used a 100 foot tower and a Hy-gain 20BA 30 meter beam.

We were delighted to learn that Dale Streiter, W4DQS, had accepted our invitation to speak at the annual NOFARS banquet meeting at the Ramada Inn. Dale is a top-notch DXer and a pleasure to have as a speaker.

The official results in QST placed NOFARS second nationally in the 3-transmitter class for Field Day. We wish to salute all the many persons who helped us with the effort. FD was under the capable direction of Howard Kelley, K4DSN.

## BROWARD A.R.C.

By Jim Wilson, W4GDK

Where there are about 1,000 licensed hams in a county (Broward) there is a lot of good material from which to draw additional membership. This is important for B.A.R.C. because of the formation of the Hollywood Club in the southern part of the county. This was done mainly because of the distance some had to travel. Many of that club still attend B.A.R.C. meetings regularly, and we do appreciate their dual loyalty.

Our new president, Gerry Kemler, W4OJU, promises us a fine year of activity, and knowing Gerry, we know he will produce.

But for the year just passed we have loads of thanks to extend to the 1970 officers and directors. Especially we want to thank our lovely lady Ruth Christian, WA4HED, who served as our President though "she didn't have time." No President has served us better and her friendly spirit has done much to build the Club. The other officers and directors are to be commended for their dedication to the Club.

As we go to press we are looking forward with pleasure to our Christmas Banquet at which there will be a "change of watch." 1971 is going to be a big year for B.A.R.C.

To all the officers and directors of B.A.R.C. we extend our heartfelt thanks for a fine year of accomplishment.

Our regular meetings are held in the Broward County Court House the 2nd Wednesday of each month at 7:30 p.m. Anyone interested in ham radio is cordially invited to attend. Just ask the watchman in the lobby what room the C.D. meeting will be in. We'll be glad to welcome you.

FLORIDA SKIP January 1971



RMC C. V. POSTON, W4YEW NOASC (left) and RMC E. F. Leafy WB4JCU NOVCM (right) salute as Chief Poston assumes the position of Director 6th ND Navy-Marine Corps MARS at the Conference held in Charleston, SC. Best wishes to both gentlemen in their new endeavors!! (Photo by NOPJQ WB4FSF)

## SOUTH MIAMI RADIO CLUB

By George, WB4JFA

I guess most of you have thought the South Miami Radio Club did not exist any more, but you are wrong. We have a new slate of Officers for 1971 and they promise us a very active club. The new President is Joe Poerschke WB4HIS, Bill Neno WB4NU 4, Vice President, Martha Edwards, Secretary and Ernie Fischer, K4KIC Treasurer. The club will be meeting at the Coral Gables Police Station in the Court Room at 4:00 p.m. the first Friday of the month. However, for the January meeting we will meet on January 8 because the first Friday is New Year's Day. Bill Graling WB4IBW is our program chairman and he promises us some good programs.

The club will hold their second meetings of each month at a different member's home each month which will be a social meeting but the catch is that you have to attend the first meeting to find out where the second one is at.

We hope that all hams in the area will come out to our first meeting of 1971 and join us for the coming year. For more information call 238-2582 or 446-3478. Happy Holidays.

## WEST PALM BEACH AMATEUR RADIO CLUB, INC.

By Clara B. Stables, WB4NXX

Not only are we conducting Novice Classes, but also on each Monday and Friday evenings, code classes for Novices and Technicians who wish to upgrade their licenses. Any area amateur, member or not, is invited.

On October 1, we negotiated a five-year lease on the building in which we meet, 823 Newark Street, West Palm Beach. Since then, we have scrubbed, waxed, painted and paneled the interior. Members and friends have contributed time, labor, and equipment, including refrigerator, air conditioner, tape recorder, receiver,

transmitters, transceivers, and first-aid kit.

President Harold W. Kilpatrick, WB4NPN, announces that starting in January, Novices will receive simulated on the air experience, and actual experience through a Novice Net. For General, Advanced, and Extra, there will be radio on Club Nets and instruction and practice in servicing their own equipment. Colmes Hughes, W4EXD, will be in charge of this project.

We don't like to sound our own bullhorn; but, beginning in May, 1970 from and with nothing, we feel that now, with forty active members, we have a running start on 1971, and that, for us, it will be a banner year.

## FLORIDORA YLS

By Cathy Soehl

WB4VAREA AHN5

W4LKM W4CWV, Annette Thompson arranged a Florida hushhoo at the Ft. Lauderdale Country Club, Friday, November 13th. 12 members and visitors enjoyed a delicious luncheon and "yak" session. KARHL, Elsie Horner gave an interesting account of her recent African trip. W4KOH, Ernie McMasters, President, made the trip from her Lake Placid QTH and OM, W4BCZ, Phil recommended the group by taking a picture. (Sorry I missed it. W4BAV).

W4EMV 4, Kayla Hale and OM, W4MWS, Doc, were lucky to escape with their lives when a fire broke out, at night, in their N.E. QTH. The house burned to the ground; Kayla's new Drake III was lost with everything else. Fire Chief said if Kayla had awakened 5 minutes later, he would have had to remove two charred bodies.

W4ASH, "Cuddie" Cane's Mother passed away recently. Our heartfelt sympathy to the family.

W4IUB, Mim and OM, K4VNA, Walt Cook are getting settled in their new home, after a number of delays in moving. Their mailing address is: Box 322, Lake Mary, Fla. 32748. May you have many happy years in your little "love nest!"

W4CUL 4, Mae Burke is fully recovered from her operation and is back on her "right" radio schedule. Good luck, Mae.

WB4JH, Angie Kramer, during a phone call from WB4AV, promised to make every effort to join the Floridians on their Tuesday morning Net. We'll be listening for you, Angie.

Hope all had a Merry Christmas and a Happy New Year and that 1971 will be prosperous, bigger and better for all the members, as well as the Club.

## SUNCOAST ROVING REPORTER

By Cathy Soehl

WB4VAREA AHN5

The St. Petersburg Amateur Radio Club (SPARC) held their regular monthly meeting December 4th, with election of 1971 officers: Pres., K4NE; V.P., WB4QVB; SECTy-Treas., W4TDK. A Christmas Party with cake, ice cream, etc. followed the meeting.

Sarasota Amateur Radio Assoc. had many problems solved and questions answered during their meeting presenting a program of "Round Table Discussion, Ham Radio Operating and Technical." Their meetings are held every 3rd Tuesday, 8 p.m., at Sarasota Federal Savings & Loan.

The Bradenton Radio Club held a dinner and Christmas party, December 14th at the Sweden House.

W44CVU, Bob Boylston and Alice Peeler were married Nov. 21st, at the home of the bride's Mother, Mrs. J. P. Harlee. Congratulations and many years of wedded bliss!

Wayne Lindner, son of W4KTE, Walt, was proclaimed a hero when he jumped into the chilly canal waters to rescue a pregnant mother. He is credited with saving 12 lives, when the mother gave birth, that evening, to a litter of 12 Wampanoag pups.

K4HQ4, Art Bond is in the Bayfront Medical Center Hospital, Room 327, St. Petersburg. We hope as you read this he will be fully recovered and back on the air.

SPARC Installation Dinner will be held January 14th, at Princess Marlin Hotel, St. Petersburg. For details and reservations contact K4WXS, Lee Hananian.

Another year has passed and we wish everyone a Very Happy New Year and may 1971 be a memorable one — Happy, i.e. Also may SKIP prosper and we appreciate all they do for amateur radio.

## COUNTRY COUSINS

By Stan Offenbutter, K4BLM

A Merry and a Joyous Christmas and a Happy New Year with Good Health and Prosperity to All, and a successful operation in our endeavors.

A welcome to our new cousin, Paul, W2PDU 4: Charlie W44DO and Mike, K4SCF. It is a pleasure to have you amongst us.

Two old time cousins checked in after a silence of some time, they were Bill, W4WHE, and Jim, W4ZYQ, nice to have them back with us.

Paul, W2PDU 4, checked in from New York where he is spending the holidays with his family. Leo, K4LEE, is going to Alaska — hope he remembers to take his Long Johns with him as he sure will need them. Hi!

Dick, W4SKC, is up at Milton working with Don, W4E5L, on the broadcast transmitter there; Russ, W44ZRA (the free loader), enjoyed a visit with Bill, W44WFW and Sam, W4LIS.

Ward, W4CSU, and Coleman, WB4OKS,



checked in from Ward's cabin near Ocala. Ward is doing nicely and Coleman is resting down to Miami to work with the FAA -- people sure do get around these days.

Wib, WB4LTC, and Earl, W4UFR, are on the sick list. Our prayers and best wishes for their speedy recovery are with them.

Our Net Controls and Alternates are to be complimented on the fine job they are doing in spite of the QRM these days, but at least we don't have any QRM to put up with at present.

A welcome to all to join us every night at 10 p.m. on 3870 KHz. A certificate is given by the Net. For all particulars, please check in.

## GULFSTREAM SOCIETY

By Alan Harp, WA4SVH

I am very pleased to announce that we have received permission from the FCC to operate a station from the South Florida Fair with the call WC4SFF. This is the result of inquiries to the FCC and Congressman Paul Rogers by Joe White, WB4KZU. With the controversy over recent rule interpretations perhaps it should be noted that we only hope to demonstrate Amateur Radio as a hobby. We will not provide communications for any organization that cannot qualify for an amateur radio license.

On Sunday, Nov. 15, four members of the Society assisted in providing communications at the dedication of Science Museum and newly named "Aldrin Planetarium." There was a tremendous number on hand to see Astronaut Buzz Aldrin and a Moon rock.

The five Society Members were Dick Kidder, WB4AKH; Bob Murray, WB4DL; Charlie Sjoquist, W4LFB; Alan Harp, WA4SVH, and Bob Grove, WA4PYQ. Fortunately the most serious traffic that was handled was calling for assistance for disabled automobiles. However, we stood ready to dispatch an ambulance to any of our control points.

This month we welcome Slim and Bertha (Mike) Egger, WA4AZZ and WA4BMC, to our membership. Also we welcome newly licensed Craig Brooks, WB4TDA. 1970 has been a big year for the Society with Fair operation, Field Day and FM Activities among our activities. We hope to make 1971 an even bigger year.

Happy New Year from the Gulfstream Society of Amateur Radio Operators.

## BRANDON AMATEUR RADIO SOCIETY

By Gene Burton, WA4YNW

BARS' Christmas Party was held December 11th at the home of Jeff, WN4SAP, and a good turnout of members, spouses, and teen-agers were present to enjoy the fun and refreshments.

New officers, elected in November, were installed at the Christmas party, to take office in January. They are: President — Don Myers, WB4MVM; Vice President — Vic Woodward, K4NP; Secretary — Bill Stephens, WB4MUU; and Treasurer — Don Patsch, K4EDA.

## HARS NEWS

By Ray Scott, W4UHF

The installation of new officers took place at a dinner held at Morrison's 30th St. & Fletcher, with over 30 members and families attending on December 1st, 1970. More of these family get-togethers are planned in the near future. Guest speaker was Lt. John Kerfoot of the Hillsborough County Sheriff's Department.

Instead of the usual monthly meeting which would normally be held on Tuesday, December 22nd, an after-Christmas party will be held at the Odd Fellows Temple on December 29th. Each member attending to bring a small gift for exchange with another member. There will also be door



**K4TT and W4OB RECEIVE their "50 Year Award" and are being congratulated by W4GJ (right) Chairman of the S.E. Florida Chapter of the QCWA at their Nov. 5th dinner-meeting, Miami.**  
(SKIP PHOTO)

prizes donated by the Club. Delicious refreshments served and a most enjoyable evening for all.

Our new president, Paul Buck, WA4LYD, in cooperation with his new program director, Ray Murphy, WB4NE, who is also the Club Trustee for station WA4GJJ, is emphasizing meetings that get away from the old routine type of meeting. One innovation is the presentation of the featured guest or program immediately after the introduction of guests. A brief business meeting follows on matters of importance to the membership. Decisions on policy, programs, etc., are arrived at during Board meetings, and then submitted to the membership for approval or rejection. This is working out beautifully and a much larger attendance at meetings is the result, as meetings then become a pleasant experience free of needless differences of opinion, personality clashes, etc. Door prizes at each meeting for members and guests.

One of the major projects of the HARS group is a bigger and better location for the TAMPA HAMFEST extending its time possibly to 2 days, Saturday and Sunday, and hopefully in an indoor air-conditioned location which would also provide suitable place for other organizations to attend the Hamfest, such as CAP, Boy Scouts, etc. The HAMFEST will be held in October, exact dates to be set. There will also be awards for Novice Class, Oldest & Youngest licensed hams, ham furthest away from QTH and since the stock of famous watt-hour meters is about exhausted, only 2 or 3 of these as awards.

## VERO BEACH AMATEUR RADIO CLUB, INC.

By Grover W. Gnewuch, W4DFZ

The Vero Beach Amateur Radio Club held its annual picnic, Sunday November 15, 1970 at MacWilliam Park in Vero Beach and it was a great success with over fifty people present. Chicken was furnished by the club and all those attending brought a covered dish and no one went hungry. After partaking of the delicious food, prizes were then passed out. Thanks to George Cooke, W4LEP the chairman who did a nice job on such short notice.

Welcome to K4QM who is now a full fledged Floridian and to his nice wife Boo. Some slides were shown by Henry,

K4EPK and they were wonderful. It showed a field day exercise, pictures of Henry's family and some wonderful shots of beautiful scenery. At our December 8 meeting, moved up account of holidays. Installation of officers will be January 28, 1971, at the Reef Motel. It was agreed unanimously by the members to keep the present officers for another year. Welcome aboard, Dick Purinton W4SK 4, who signed up with the club. Dinner for Two and a cocktail for each at the Reef was raffled off and the lucky ham was George, W4LEP. Tom, W4KEE our president won this prize at our picnic and donated it to the club. Thanks Tom and now our Treasurer's fund is \$8.00 richer.

I. J. WA4SCK still busy at CD with his group. The latest project being the assembling of a 4 Element "Jay" pole for 2 meter operation which will later be bracketed onto the Sheriff's tower about one hundred feet up. Also, our CD Director, Fred Prestin recently purchased a portable generator which will be available for use in the future.

Happy Holidays to everyone!

## QCWA

### S.E. FLA. CHAPTER

December 1st was the date of our most recent dinner at Smithie's Coffee shop in Miami. Many new and old guests showed for this event which has been hailed 203 Night.

We welcomed the early arrival of W4BJ and the Mrs. Ray recently suffered an accidental mishap with his hip and spent some time in the hospital. Ray is one of the original QCWA Charter Members of 1947. Ray was presented with his 50 Year Certificate Award by our Chapter Chairman, W4GJ, Walt.

Many old timers present celebrated the 50 year old UV-203 transmitting tube, which was passed around for inspection. This is the famous "50 wattier," the world's first high power vacuum tube which fought the high power sparks to a standstill.

The little "5-Wattier," known as the UV-203 of the same age was a surprise visitor. Many remembered this tube which stayed around until 1925, when it was replaced by the UV-210.

Florida is fast becoming the land of "two letter calls." Our chapter is no exception. We always seem to have more two letter guys returning to the fold. This night we

broke even. Keep them coming.

Don't forget the State Wide QCWA net on 734 every Sunday at noon. W4HWW has a perfect record of attendance on the net. Many QCWA members are returning to AM via the 10 meter band. Look for them around 29.100 on week-ends. Maybe we can get something started on 28.540 or 28.254 just following the 734 net. This is good old AM territory, so let us respect this tradition.

See you January 7th, same place. 3360 N.E. 3 Avenue, Miami, 8:30 p.m. Don't forget the Tropical Hamboree, Jan. 25-26 as the February dinner is cancelled.

W4JO, Sec-Treas.

## SPARCYS

SPARCYS (St. Petersburg Amateur Radio Club YLs) held their annual Xmas Party, December 6th, at the QTH of W4WPD, Shirley Hill, in Tampa. It is the Club's one activity of the year, at which time all licensed YLs are invited to attend. Fourteen YLs enjoyed an afternoon of "yacking" and exchange of gifts, while partaking of all the "goodies." There were occasional flashes, as many pictures were taken during the celebration.

The Floridians were well represented, with the first president, W4BIL, Fran Foley and the current President, W4KOH, Ernie McMaisters being present, besides ten others.

K4RCQ, Elaine Ruble delighted all with her renditions on the Heathkit (Thomas) organ, which was constructed by Shirley's OM, W4UFR, Earl. The girls were also happy to hear from W4HRC, "Little Bo" Bogardus, who called from Jacksonville to say "Hi" to all and express her disappointment of her inability to join in the festivities, due to unexpected circumstances beyond her control.

Trust all who were unable to attend will remember the first Sunday in December and plan to join those, who agreed it was fun, and looking forward to next year.

W4BAV AREA ARNS

## WESTERN FLORIDA NEWS

By Frank M. Butler, Jr., W4RKH

Pensacola: W4NOG is now Mgr. of WFPN. WB4JCV was appointed EC for Escambia County. W4UUF keeps nightly shed with W4LSQ in Alabama on 2-meters; he would like sheds with Arkansas and Oklahoma — SSB or CW. K4OSE is out of Navy, but plans to stay in Pensacola and chase DX! WB4PKR and WB4PKW are looking for more local activity on 6-meters.

Milton: WB4MNM is a new General, and runs an HW-100 and HW-17. WB4KUF also passed the General exam.

Fort Walton: New hams in the area include WB4BCA, K4CLM, WB4SPU, WB4SUU and WN4TAQ. WB4NHH is in California for two months. Construction is underway on a CD EOC for Okaloosa County; local hams will help equip and man it. K4UBR and WB4EQU are planning a 10-meter FM repeater. Choctawhatchee High School now has a ham club, with 8 members. Officers are WB4PFV, WB4NRB and WN4RBD.

Defunctak Springs: a 2m FM rig has been installed in the Courthouse CD office; HF SSB gear is on order.

Panama City: New officers of the PCARC are WB4QAO, K4AHV and Gene Kelly. They were installed at a banquet at which K4AHV was also honored for his long service to the club. St. Joe: K4WQS is on 2m FM. WB4QBW is active on 75m from Wewahatchee.

## TAMPA AMATEUR RADIO CLUB NEWS

By Frank Shannon, K4GT

At our TARC regular meeting, Monday, December 7th, the guest speaker, "Dave"

(Continued on Page 8)

(Continued from Page 7)

Bonar, of the General Telephone Company gave a color-slide illustrated talk on the subject "Laser Beams in future communications." The large attendance present, indicated a deep interest by their many questions. Our President and those assisting him in procuring guest speakers certainly have been doing a splendid job.

Ray Murphy, W4BNE, our "EC" and TARC member gave a short talk on the coming Emergency Communications Exercises. He made a request to TARC membership to volunteer to participate in the SET operations. Ray has given this activity (EC, Red Cross and CD) much of his time during several years — and is to be congratulated!!!

Our code-theory class-instructor, George Orth, W4THT, is sporting a record-breaking length of sideburns of late!

The main subject taken-up during business portion of meeting, was our coming Christmas dinner meeting to be held Monday, December 21st, at the Causeway Inn. Again, this year, as during past years, the details, arrangements, etc., were handled by John Fogarty and Marvin Boettan. John was present at TARC meeting and gave membership present, all the details, including the menu — prices!

Your Scribe immediately crossed-his-palm with the silver for two reservations! Jim Bingham followed suit, so we got under-way, due to short time (two weeks) to the affair. CU next issue of Skip! 73.

#### GATOR CHAPTER Q.C.W.A.

By Hal Bates, W4FIU

Our old friend W4FIU who usually writes this column, has been recuperating from an operation on his eye, so is unable to contribute to this months Skip.

Well, election time is coming and it is time to hear from anyone who is interested enough to help out and to let himself be known. We need a new Vice Chairman. That ought to be easy with all the vice around these days. We also need a new Sec. Treas. as this old man is getting tired and also too busy to carry on. So at the next meeting January 9, Saturday at noon at the Knollwood Restaurant in Clearwater we will have the opportunity to elect some new officers.

W4TY is still on the sick list in St. Petersburg and W4PLU, Fred Wallace, has now been removed from the critical list after his massive heart attack. We mourn the loss of WOMME who passed away recently, in Bradenton.

The "GATORS" met on Dec. 5 at the Knollwood in Clearwater and the ladies were also invited for the annual Christmas party, and we had a total of 106 present. A very nice time was had by all.

Don't forget that the next meeting of the "GATORS" is Jan. 9 at the Knollwood

Restaurant in Clearwater so get in touch with your sec. treas. Hal Bates, W4FIU for arrangements. A new secretary will be taking charge for following year. Many thanks to the gang in the last few years for the co-operation and the help in the work necessary to get this chapter. We are the largest in the state. 73.

#### DELTONA NEWS

By Jack Six, W4YPA

The Deltona CD net has been very active the past month with the regular stations checking in weekly. They handled many simulated emergency test messages weekly. Net members should be commended for their regular and continued support for without them there would be no net.

Al Klein, K4CCX, of Deltona has started a six meter net on 50.115 MC and monitors the frequency every day Monday through Saturday 1-4 p.m. Al would be glad to contact anyone on that freq.

W4WVT, Dusty Kish, was admitted in the hospital Nov. 5th for a complete physical check up and after 4 days was released. Dusty is doing fine and had a birthday Nov. 5th — 71 years young. Dusty sure has a lot of spark left yet.

Hal Yates, Ex-W3BKC, living in Deltona now paid me a visit and we hope the bug bit Hal and he gets another ticket. Hal is a retired broadcast engineer from the Washington, DC area. K4MY, Ralph and XYL attended a turkey shoot and Ralph bagged a turkey for Thanksgiving.

Have a Merry Christmas and Happy New Year and may it be a healthy one. Smile and be nice to someone make it a bright day.

#### PLATINUM COAST A.R.S.

By Bill Armstrong, W4HPV

The Platinum Coast A.R.S. meetings have been changed to the third Tuesday of the month at 1900 at the Port Malabar Yacht Club. Visitors are always welcome, so if you are in the area drop in.

Old transistor radios, working or not, are being collected to be given to the Sunnyland Crippled Childrens Home. Tedco, 2678 N. Babcock Street, in Melbourne is the collection point, so if you have an old transistor or two lying around it could bring a lot of pleasure to a child. If you cannot drop it by Tedco, remember postal rates are not too high.

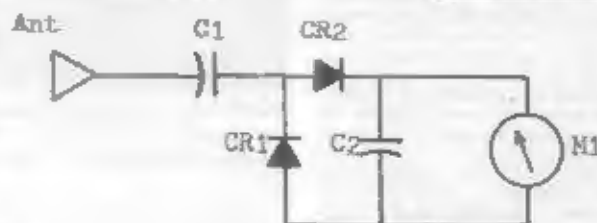
Starting in January a novice course will be given by PCARS members at the Florida Childrens Home in Melbourne. I am sure there are similar homes scattered about the state and its a great opportunity to do a good deed and introduce young people to the pleasures of amateur radio. Remember the average of U.S. hams is getting pretty high and we need new blood to insure our existence.

## UNTUNED VOLTAGE DOUBLING FIELD STRENGTH METER

By AE1MC (Lone Star Bulletin)

It is often very useful to have a FSM in the shack to monitor the rig. The one described here is fairly inexpensive and should give you some indications of how the rig is loading. The original unit used a 500ua meter and deflected about one half scale with a one foot antenna when used with a typical sideband transceiver. The circuit is non-critical. Components may be replaced so long as the leads are kept short. The diodes are small signal diodes similar to the 1N34. The meter can be any DC current meter with a full-scale deflection of 200ua to 1ma.

Basically the circuit is a half-wave voltage doubler, so the meter is reading twice the induced voltage. Therefore, this effectively doubles the sensitivity of the meter. The FSM can be built in just about any manner since shielding is not critical. The meter is bypassed for RF by C2. Sensitivity can be adjusted by the antenna length.



CR1-2..... 1N34 or equiv.

C1-2..... .01 Disc Ceramic

M1..... 200ua to 1ma

## QUESTIONS TO A FEW OLD DIE-HARDS

Why do you think SSB is the curse of ham radio? Is it because you are convinced that your 25 year old Super Pro is as good as the day you bought it?

Why is it that two stations can operate simultaneously on the same frequency utilizing upper and lower sideband techniques and you get QRM'd even though you are 15 KC away?

Oh yes, why should you have to go out and buy a \$500 receiver

just because some jerk wants to operate SSB. That attitude reminds me of the fellow who drives an old Model A without fenders or windshield and complains because he gets splattered when it rains.

In case you have not looked at any of the ham magazines lately it is not as expensive to go SSB as it used to be. There is a neat little transceiver kit available for a little over \$100 that does a bang up job. You can sneak one on the band and people won't make as much fuss as you think. Ask Andy Clark if you don't believe me.

Onyx

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Editor.



Homebrew Builders today would not think of using a type '80 rectifier on a new project. Even the 5U4 family of rectifiers have seen their day. Solid State rectifiers have gone over solid. Failures are practically unheard of where ratings are not exceeded.

Today it is easy to use two diode rectifiers to replace the old style vacuum rectifier of the full wave variety. These diodes are rated in "peak inverse volts" rather than average or D.C. values, since wave form and duty cycle play an important part in the actual rating. The popular 600 PIV 750 M.A. rectifier will handle up to 250v D.C. when used with 60 cycle full wave supplies. Several diodes may be connected in series to increase the overall rating of the system. Voltage drop is in the order of approximately one volt per unit. You may use "voltage divider bleeders" made up of resistance, and, or capacitors, but after several years of experimentation, we have not found this necessary. We would rather use a surge resistor in series with each string or unit where capacitor input filters are used. A five watt 5 ohm resistor will handle 1000 M.A. and will fill the bill in most cases.

To most of you hams this is old stuff. The Handbook is full of kindred information. They forget to tell you, though, what to do with those "left over" 5 volt windings that were meant for tube type rectifiers.

We solved this problem by adding enough turns on the transformer to bring the voltage up to 6.3 for heating additional tubes. Most small transformers require only four to six turns. It is no problem to fish these few extra turns around the outside of the winding without removing the core. If you see no space open, carefully mash the insulation next to the core and you will find ample space for several turns. Use good heat proof hookup wire so that the insulation will not break down when exposed to the transformer core. No. 33 wire will handle up to one ampere, no. 20 should be good for one to one and a half ampere, no. 18 from 2 to 3 amperes.

Connect the new added turns in series with the old 5v winding. Check the AC voltage. If the new voltage is not higher than 5v, reverse the connections

#### PROJECT 6.3v

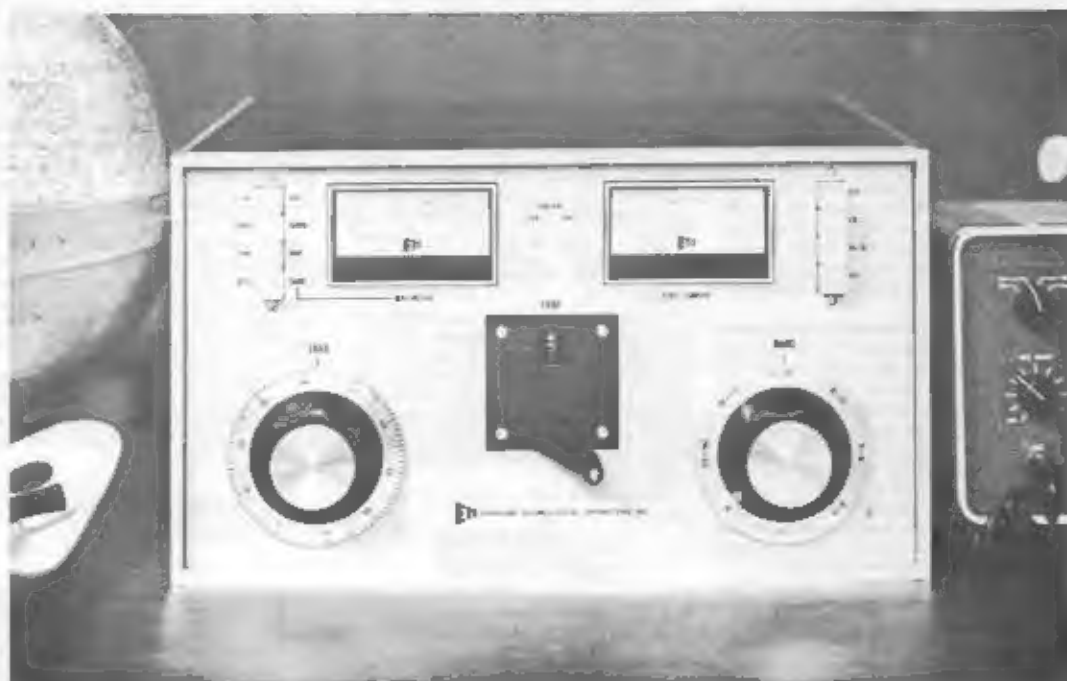
to the new winding and try again. Now compare the voltage with other 6.3v winding on the same transformer to be sure if you have the correct number of turns.

Most early type 80 windings were rated at 2 amperes. Late 5U4 windings are rated as high as 3 amperes. It is not wise to exceed these ratings.

The Old Timer

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## GATOR NET

By Ev, W4IA

Gator Net (GN), as Florida's only early morning traffic net, provides a unique service. For the individual with traffic remaining on his hook at the end of an evening's operation it offers an outlet to all Florida nets meeting later in the day. This is especially useful if you will be unable to be on the air the rest of the day or in the evening. It is a boon to the occasional message pusher too as it furnishes an all-inclusive outlet to the entire ARRL traffic system, which functions primarily in the evening. As might be expected we are heavy on "retirees" but we have many who find that a quick QNI before leaving for work or school helps to start the day right. You'll find us on 7115 kHz starting at 0830 each morning.

November found GN well shaken down for the winter's operation. The confusion of summer absences was about ended and the net settled into a reliable pattern. Contributing to this happy situation was the return of iron man Birch, WB4AIW from his world travels.

Our traveling GN salesman W4EHW made a turn around the State and visited with W4BM, K4COO, W4RHA, W4SCK, W4FPC and W4IA. GN-ers don't get to meet in person too often but there's a real opportunity coming up January 23-24 — the Miami Hamboree. Let's have a good GN turnout for that whing-ding, 73.

## QFN REPORT

By Dan Franklin, K4EHY

November QFN was super active with 79 different stations checking in to the net and 18 stations performing net duties. All of the Roster assignments have been filled for the Regular duties and many alternate assignments have also been filled. With an

influx of snowbirds and other immigrants, our net has an overwhelming number of active experienced operators, and a newcomer should never be out of sight of someone who would be glad to help instruct him in the art of traffic handling.

Plans for the Miami Hamboree include a suite in the hotel for catching up on many years of eye-balling, and probably the usual Sunday morning coffee or breakfast. For info, try W4ILE.

"In response to discussions and recommendations of Fla. Route Managers: K4LAN, W4ILE, and K4EHY; and 4 and 5 Regional Net managers W4SHJ and K5IBZ, the Florida SCMS W4RKH and W4KGJ have recommended that there be NO CHANGE in QFN National Traffic System (NTS) Regional representative system."

New calls heard on QFN were W4KC St. Petersburg; W4NTE Ft. Pierce; K4FDL, new call of K8WQV, Eve, in Tampa, and W4ABGW, Al, is back in St. Pete for a while. New regional reps are W4JJSK, W4QVT, K4FAC, and W4SMA. W4ZWD, Duke, returns from the "Sea" to Ft. Walton and can be heard daily on his side swapper key.

Hoping to see ya'll at Miami, 73 BT... K4EHY... AR N

## FLAMINGO NET LOST & FOUND

The Great World Wide Flamingo lost transmitter haul took place on Sunday afternoon, December 6th. This is one we will never forget — we have not found it yet — you see we had receiver trouble.

The starters were W4GGJ, K4JXL, K4TT, W4OQN, W4DWN-K4CYF, W4QNN, W4GJ, and W4JO. Leaving the Central Shopping Plaza at 2:30 sharp (making us exactly one-half hour late) we all started in the opposite direction to the

largest zone. We could not hear the stranded mobile, but we were sure we would do so soon. Instead, we were getting help from Pennsylvania, Oregon and Nebraska. I finally asked a chap in Maryland, who insisted on calling me, if he too "was lost"?

Most of us ran afoul the Orange Bowl football crowd, which could easily count 10,000 automobiles in various stages of motion or commotion. Funny how that lost signal seemed to follow those cars around. Anyway we were so busy watching traffic we could not notice the "S" meter was doing unexplainable tricks. This was one hunt where a loop would come in handy.

Well, you probably know the rest — everyone in the country was trying to help and after two days, I still hear them talking about it on 10 meters. K4JXL had the loudest signal in the 48 states (nearly) and W4DTJ, the sly bunny had the weakest, or was this on purpose?

Kurt, W4GGJ won the great hunt that will long be remembered. The relative order of the starters will give you an idea how everyone came in except the last, yours truly, W4JO

## FLORIDA MIDDAY TRAFFIC NET

By Herb, W4LSR

Welcome home Elmer Birchfield, world traveler. In case someone doesn't recognize the name, that is our own Birch, WB4AIW who returned safely from a trip around the world. And welcome to those who joined our net in November: Dale, K4HGG in Pompano Beach, Claude, K4BUM in Largo and Art, W4BNM in St. Louis.

Sometimes the news for our column is so plentiful, they can't find room for all of it and our tail gets clipped. Last month we lost one item we especially wanted printed. This was a vote of thanks to the two Macs, W4FPC and W4LJE for working so hard at handling out of State traffic. The FMTN held 25 sessions in November.

ber 313 Stations handled 293 pieces of traffic. Average Stations 32.5, average traffic 11.7.

And now on behalf of Clyde, W4SDR your Net manager, Herb, K4DAX your Assistant Net Manager and me, your Net reporter, ARL-62 and ARL-63, 73 to all the guys and 88 to the gals, our Net Controls, net members and all the many friends of our net.

## FLORIDA FAA NET

By George Cooper, W4EH

It's nice to have new stations check into the FAA net. It was especially nice when W4BIC, E.K. Shinn, checked in 32nd Nov. It seemed like old home week as most every one on the net knew E.K. at one time or another. "E.K." was somewhat surprised when I addressed him as Mr. Shinn, however when I was a lowly brass pounding CW operator at the old Glades station WBR in Miami my ex-boss was indeed Mr. Shinn. Welcome aboard E.K. (He was also my boss then. Editor — AC)

Another most welcome aboard to W4OS-4, Henry Selby, Ormond Beach. It looks like with all the FAA in Ormond Beach they can have a hamfest every week.

K4MV, Floyd Lindsey is studying for his extra class license and thanks to K4EEL, SI, has some new study material.

My nearest neighbor K4PH, Al Hendrick, over Sarasota way is getting interested in the higher freq's and put up an antenna for 15. Maybe I'll have another ham I can talk to about DX.

After a year and a half your FAA editor finally located the problem in his linear. Would you believe a intermittent short in the filter choke?

W4AHR, Len Ballard, enjoyed a visit to Atlanta with his son and grandchildren. Len is also looking forward to his trip to the Virgin Islands.

W4JVA, Paul Colby, is anxiously waiting his new YAESU FTdx 580. Paul's son, a Jet pilot, home from Vietnam and Paul and Edith's voice is full of pride when they speak of their son. For very good reasons.

W4LIU, Blair Pearson, is waiting for his

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4. WA4LJB	317	14. K4NGR	59
5. W4FPC	277	15. KOBAD 4	52
6. WA9QVT 4	178	16. WB4SMA	46
7. W4DVO	137	17. WA4ABY	45
8. 8R1Y W4	120	18. WB4LAA	40
9. W4SDR	110	19. WB4FJY	36
10. W4YPPX	84	20. WB4GHD	33

## TRAFFIC HOUNDS

Net	QNI	Avg. QNI	QTC	Avg. QTC	Sessions
FMTN	813	32.5	292	11.7	25
QFN	753	12.5	512	8.5	60
7285	61	13.0	33	6.6	5
GN	320	10.7	184	6.1	30
FAST	752	28.9	146	5.8	26
FPTN	407	16.3	125	5.0	25
TPTN	421	16.1	96	3.7	25
NHN	33	5.9	6	1.2	5
WFPN	580		29		30

orders to become W4111 marine mobile

By the time this goes to press Christmas and the New Year are upon us. I am hoping everyone has a Merry Christmas and will have the best year ever in 1971 coming.

The FL. HGA RAA NET meets 445GMT Sunday 2000H.

## GLOSSARY OF RADIO TERMS

**ABSORPTION:** The loss of radiated energy due to dissipation in a conducting medium.

**ACCEPTOR CIRCUIT:** A series-resonant circuit.

**ALIGN:** The process of adjusting the tuned circuits of a receiver or transmitter for maximum signal response.

**ALTERNATION:** One-half of a complete cycle.

**AMMETER:** An instrument for measuring the electron flow in amperes.

**AMPERE:** The basic unit of current flow, a current of one

ampere will flow through a conductor having a resistance of one ohm, when a potential of one volt is applied.

**AMPLIFICATION:** The process of increasing the strength of a signal. **AMPLIFICATION FACTOR:** The ratio of a small change in plate voltage to a small change in control electrode (grid) voltage required to produce the small change in plate current, with all other electrode voltages and currents constant. It is the measure of the effectiveness of the control-electrode voltage to that of the plate voltage, upon the plate current.

**AMPLIFIER:** A device used to increase the signal voltage, current, or power, generally made up of a vacuum tube and associated circuit called a stage. It may contain several stages in order to obtain a desired gain.

## VP9DX TRIP

By Bill, WB4OUH

Here is a brief summary of a recent endeavor of the Florida DX Club and The Frankford Radio Club. The weekend of October 24 and 25 was the annual CQ WW DX Phone Contest. The combined efforts of the two clubs in a somewhat hurried and disorganized manner put VP9DX, Bermuda on the air on all bands 10 thru 180 throughout the entire 48 hours of the contest.

From Florida the operators included Vic, K4SHB, Gene, W4BRB, and myself Bill, WB4OUH. From the Frankford Club came Ralph, W3NNK, Art, W2DXL, Frank VP9GR and Jim, VP9BY. Also from Florida DX Club was Bob, VP9FO.

When we arrived, there were no antennas available except for 20 meters. The task of constructing antennas took us

up to 20 minutes before the contest started. A church steeple came in handy for getting the ends of our 80 and 160 meter antennas up to 85 feet on one end and after the proper blessings worked out very well. For 10 meters we built a helically wound vertical.

The major mishap of the entire expedition was that it didn't rain, but that is another story. For that one you will have to see us at the Miami Ham-boree for the continuing story of "What To Do In Bermuda When It Doesn't Rain." Our score is still a deep dark secret only because we don't know it ourselves. A certain red head said "You have to be crazy to operate a phone contest from Bermuda," but he is in charge of the planning for next year when we return sans rain. 73.



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## COMLAB

(Continued from Page 1)

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Vice Director, S.E. Division  
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Miami, Fla. 33155

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Ft. Walton Beach, Fla. 32548

SEC, East Florida  
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Miami Springs, Fla. 33166

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(Photo by K4NTD)

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**QSO EN ESPANOL** presents essential ham phrases on tapes or cassettes, 1 1/2 hours of situation QSOs with complete text and voice available in Spanish & or English. Write FOREIGN LANGUAGE QSOs, Box 33, Acton, Mass., 01720.

**FOR SALE:** Swan Cygnat 200 with mike, AC-DC supply, \$215, like new. TenTec PM2, two watt CW rcvr with 15 meter converter, Factory installed, \$40. Send certified check or money order. P. H. Smith WA4BSI WA4NDX, 38 Imley St., Hartford, Conn., 06125.

**WANTED:** H.W. 14. Must be in A1 condition. Norman McDonald, 3319 Anderson Road, Coral Gables, Fla., 33134. Tel. 444-0445.

**WANTED:** Anyone with a schematic for VOM model 104 by Electronics Measurement Corp., New York City. H. J. Stark, WA4MTH, 8231 Caribbean Blvd., Miami, Fla., 33157.

**FOR SALE:** Ameco TX-82 transmitter and VFO \$21, \$150. HME 6900 receiver and Ameco CN-141 converter, \$185 or \$150 for receiver. Will trade all for SR-110A transceiver. O. W. Coquilliet, WA4LZP, 407 Georgia Ave., Altamonte Springs, Fla., 32701. Phone 838-9649.

**FOR SALE:** Gonset G-50 (six meter) \$135. NC-300 \$125. SP-600 \$225. CE 20A with EB-300 watt pep QG linear and HB 180 Euro 10 meter VFO, \$100. Trades and offers considered. Don McKenzie, WA2RX, 4238 Fyfe Ave. N., 34, Petersburg, Fla., 33710. Phone 813-245-3405.

**FOR SALE:** Moseley TA 3540 six element beam with forty meter conversion kit TA40KR. In excellent condition. Have it assembled for inspection \$135. Hustler five band vertical model 48TV and RM-755 with radials for all bands and a 16 ft. mast pipe and mounting brackets for side of the house. Also in excellent condition. \$48. William McCoy, W4ZTK, 279 NW 16th St., Miami, Fla., 33150. Tel. 751-4283.

**FOR SALE:** Slightly used Hy-Gain multi-band antenna for 80, 40, 30, 15 and 10 meters. With traps, etc. exactly measured. With 100 ft. of coax. C.H. Blackburn, WN4SRU, P.O. Box 42, Palm City, Fla., 32909.

**FOR SALE:** Heath Apache Transmitter and matching SB-10 sideband adaptor, both clean. 100 watts AM-CW SSB on 80 thru 10 meters. \$110 for both. Tom Hill, WA4ECB, 119 DeLeon Road, Cocoa Beach, Fla., 32931. Phone 783-0266.

**FOR SALE:** Drake TR-3, AC-DC supplies, MS4 speaker, D-104 mike, Hustler mobile antenna, 50 ft. mast with 30-40 V's etc. Complete station like new plus mobile all for \$400. You pick up. W.G. Watson, K4APE, 2550 N.E. 209th Terr. North Miami Beach. Phone 945-6487.

**TRANSFORMERS REWOUND:** Jess Price, WA4LJ, 411 Gandy Ave., Orlando, Fla., 32801. Phone (305) 425-7251.

**Wishing everyone a MERRY CHRISTMAS and a HAPPY NEW YEAR. Hope to see YOU at the TROPICAL HAMBOREE.** Jess Price, WA4LJ, Orlando, Fla.

**FOR SALE:** Heath DX-100 less PA tubes, \$15. Johnson 250-28 TR switch with spare tubes. \$15. Both units operating, come out on the cabinets. Pick up only. D.R. Greenwalt, K4BS, 631 Camella Lane, Vero Beach, Fla., 32960. Phone 567-2444.

**FOR SALE:** Drake TR-4, AC supply and speaker, cabinet, excellent condition, \$525. Bid Jennings, WA4RQR, 607 Skyline Dr., West Palm Beach, Fla., 33406. Call (305) 842-3458.

**FOR SALE:** Hallicrafter HT-45 SSB CW AM transmitter, 200 watts, complete with power supply and Dowkey antenna relay. Also SB-610 monitor scope, wired and never used. \$300 for the package. Clarence L. Wright, K4CDP, 424 Hand Ave., Ormond Beach, Fla., 32074.

**FOR SALE:** Hammarlund HQ-180C with speaker \$315.00. Ranger one with Dow antenna relay \$95.00. Heath HW-12 \$80.00. All equipment in excellent condition. K4AIG, 2275 Queen Palm Rd., Boca Raton, Fla. Phone 305-391-3308.

**BEST OFFER:** Collins 30L-1, Heath SB-301, SB-600, GSB-100, aeromotor tower 100 foot, pair 4-1000As, Ham M rotor, 180 foot cable and misc. gear, magazines, all fine condition. C. E. Little WA4NBC, 811 Westbrook Ave., Brandon, FL 33511.

**GUARANTEED REPAIR ON ALL AMATEUR EQUIPMENT. ALL PROFESSIONAL TEST EQUIPMENT USED.** For more information call Bob Poberence, WB4RSK, 11046 N.W. 6th Lane, Miami, Fla. 33126 Phone (305) 226-6657.

**FOR SALE:** Heathkit MR-50 ham band receiver, xtal filter, usb-lsb select, perfect \$65.00. Johnson Adventurer transmitter all bands \$15.00, both \$70.00 or will trade for camera equipment or?? **WANTED:** Galaxy SC-1 BV-1, 2000-B linear. Bob Poberence WB4RSK, 11046 N.W. 6th Lane, Miami, FL 33126 Phone (305) 226-6587.



**FOR SALE:** Hy-Gain 18HT vertical \$40.00, no ground posts, you pick up in Orlando. Johnson Phone patch \$10.00. Ray Downey, W4PHK, P.O. Box 627, Dunedin Fla. 33526 Phone 813-733-0032.

**FOR SALE:** Hammarlund HQ-110C with manual condition good \$100.00. Eldico SSB-100 with manual as is \$50.00. Need manual for Harvey Wells T-90. Randy Payne, K4EZM, 14631 SW 293rd St., Homestead, FL 33030 Phone 348-2904.

**FOR SALE:** Gonset Communicator 3 meter, excellent works fine with mike and antenna \$65.00. Control head for Ham M, like new \$30.00. Stan Hurst, WB4J5I, 1935 Woodland Dr., St. Petersburg, FL 33708.

**SWAP:** Have SRE-33 with SB-3 DCP mobile inverter. BBE mike, Moseley mobile antenna. NEED General Coverage receiver, National HRO or similar Ray Downey W4PHK, P.O. Box 627, Dunedin, FL 33526 Phone 813-733-0032.

**DON'T GUESS** at operating privileges. 8 1/2 x 14 inch wall chart displays at a glance FCC frequency allocations and authorized emissions for novice through extra class, 1.5 thru 148 MHz. Price \$5. K. H. Nichols W4ZDT, 7280 Danbury Way, Clearwater, FL 33518.

**FOR SALE:** Thunderbolt 2000 PEP with nearly new 2 4-400As, also extra pair of new 4-400As and pair of new No. B28 rectifiers and antenna coax switch which includes contacts to change bias of amplifier, B&W switch to change from exciter to linear. All for \$300.00. SR-150 with ac and dc power supply, mike and cables. This rig completely realigned, some new tubes installed a hot little rig, good buy at \$325.00. Elco 753 20-40-80 SSB AM CW rig complete with AC 751 supply, shure mike and 160 kc calibrator all for \$140.00. Will not ship -- come see it and pick up. A. Litchauer W4JQ, 637 Ave. Alegria, West Palm Beach, FL 33405 Phone 552-7826.

**FOR SALE:** Components for 15V KW power supplies, variacs, OL, ID, and control relays. KW linear parts, complete assembly for 4-1000A linear including tube. Also a wide selection of PC cards. J.H. Wainwright K4EY, 941 Country Club Circle, Ft. Lauderdale, FL 33314. Phone 305-580-0631.

## GUEST EDITORIAL

(Continued from Page 2)

even in times of economic stress, and despite the recent destructive blows dealt the technological communities, enterprising and ingenious individuals will put their curiosity to work to bring about revolutions in amateur radio science that most of us couldn't conjure up in our wildest dreams.

A toast to old '70. He tried hard. And, in smiling young '71. With a little help, he just may start us on a wild ride to the stars.

**FOR SALE:** COLLINS 160KHz. plug in xtal calibrator for 75A1-2-3-4, \$10.00. Johnson 100kc calibrator, switch and instructions \$10.00. Percent Modulation 0 to 100 percent (with 0-1 ma scale) 3 inch round \$3.00. Sprague 12,000 MFD, can. 11 VDC, \$2.00. 40 meter center loading coil, total 32 ft. required, not 66 feet, \$4.00. ARC-5, 3.95-5.3 5.3-7.1, and 3-5 Mc \$7.00 each. All FOB, Andy Clark, W4IYT, 41 Lenape Dr., Miami Springs, FL 33166. Phone 888-3875.

**IFTI** — 5 color post-card-size calendar FREE to our Florida SKIP members. Send a self-addressed stamped envelope to Florida Skip, Box 501, Miami Springs, Fla. 33166. Yours will be mailed soon as they arrive from the factory. First come first served. Editor.

**FOR SALE:** Drake T-CK, AC-3, R-4A, MS-4. Xtals for 10 and 160 included. Like new \$350.00. Galaxy V, Mkr 2 with Galaxy AC supply. \$275.00. Drake 28 with 2-AC calibrator and 3 BQ Q Multi-plate. all for \$150.00. Will deliver and Miami Ham-boree. Ben Letson, W4BGO, 3535 E. Forest Lake Dr., Sarasota, FL 33590 Phone 813-924-3410.

**FREE** — TWO COMMERCIAL TOWERS. 110 Ft. and 90 Ft. YOURS FOR REMOVAL. FOR INFORMATION CONTACT Robby Terry, WA4BYV, P.O. Box 703, Cape Coral, FL 33904 813-542-2119.

**WANTED:** Heath SB-610 scope, Collins 70H1 PTO, 5662, Nuxie Tubes, Don Murray, K4FMA, 1700 N.E. 148th St., North Miami, FL 33161 Phone 305-947-7725.

**FOR SALE:** HA-100 with speaker and calibrator Xtal. Excellent condition. Dual conversion. \$75.00. John Aikens, WB4KQB, 17110 NW 16th Ave., Miami, FL 33189 Phone 634-6890.

**FOR SALE:** Motorola motrac L-43 MHT-117A 4 freq 2 meter transceiver, missing some parts \$60.00. Motorola FMTRU-41V 2 meter single freq. \$30.00. Kleinmidt TT-76 tape punch and printer \$125.00. Norman Garber W4ZRT, 690 N.E. 81st St., Miami, FL 33138 phone 305-752-2503.

**QSTs CQs** — ten cents each, cash and carry or 15c each if shipped. Bring a big box. Andy Clark, W4IYT, 41 Lenape Dr., Miami Springs, FL 33166.

## SOLID STATUS — GRAND FINALE

By Dick Blaseo WA4DHU Z

This final article of the Solid Status series is intended to take the information of the first 5 articles and "put it all together" in the form of a final example. Remember our description of amplification as control of a large current with a smaller one. Remember also our three assumptions, which are included in the Ohm's Law and Transistor Formula entries on the figure. In previous articles it was mentioned that parameter  $g_m$  (transconductance) was not useful for biasing. It was also mentioned that biasing information (desired collector voltage and current) was obtained from other considerations.

All of these and other concepts are tied together by examining one AC amplifier scheme—the common emitter amplifier. The first thing to notice from the figure is that the circuit is the same as the vacuum tube equivalent, except for the extra biasing resistor  $R_1$ . Design of the circuit is simplified due to  $g_m$  being constant for transistors (it varies with tube type). Voltage gain of the transistor circuit is exactly the same as the tube equivalent:  $\mu$  (stage voltage gain) =  $g_m \times R$ , where  $R$  here is the parallel combination of the stage output impedance and the load impedance. Using the voltage divider relation of Ohm's law for the input signal, overall stage gain can be obtained by noting that the divider network is the source resistance and the stage input impedance.

Without boring you with the mathematics, applying the rules of circuit theory, and assuming that impedances are matched (stage output impedance equals load impedance, etc.), the simplified procedure in the figure is obtained.

Notice in the procedure that the stage is designed by STARTING AT THE OUTPUT AND WORKING BACKWARDS. This is a general procedure for design of cascaded stages. Load and desired stage gain are specified. The parameters  $h_{oe}$  and  $h_{ie}$  can be obtained from transistor manuals. Rough values for these are .0001 for  $h_{oe}$  and 2000 for  $h_{ie}$ . Beta is also available from the transistor manual. It is listed as  $h_{fe}$ .

Following the procedure step-by-step as indicated will yield a design. The biasing procedure is also shown on the figure for your convenience. You start out obtaining  $R_c$  and  $I_c$ . Then you do the biasing to get the other resistors. You then compute input and output impedances for the stage. The coupling and emitter bypass capacitors are sized to give good gain down to  $f(\text{low})$ , which is a lower cutoff frequency. Using  $R_{in}$  as the load impedance, you duplicate the procedure for the source stage until you have designed all the stages. This procedure is quite similar to that used for tubes.

You must check your design by noting if  $V_c$  is smaller than  $V_e + 1.4 \text{ V}(\text{load})\text{RMS}$ .  $V_{load}$  is usually specified. If so, the check fails, and you must reduce stage gain and try again.

The formula for  $R_c$  in the DC case is repeated in the figure for reference. It is useful when designing flip-flops and similar digital circuits.

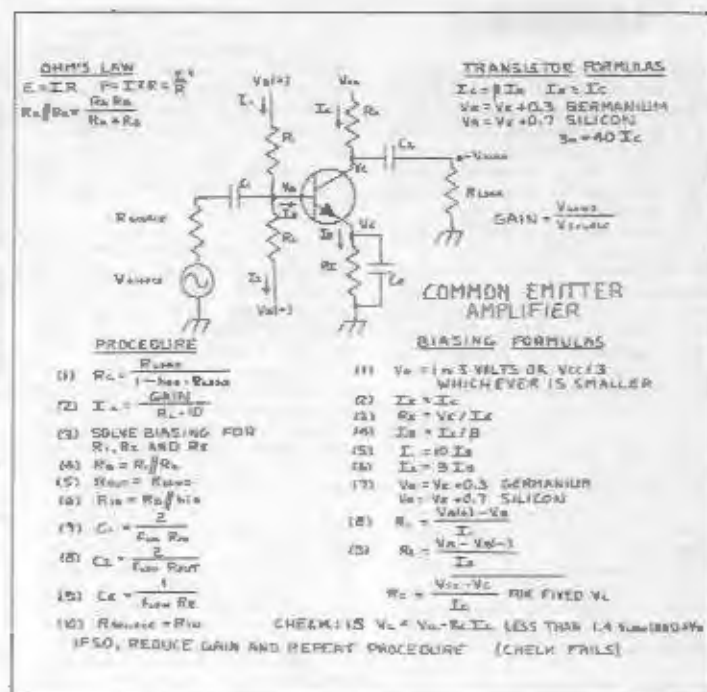
It is highly recommended that you make up values for transistor parameters, and desired load impedance, voltage, and stage gain, and work out your own example following the procedure shown. You might even want to build it and see if it works! This should make all of the information fit together for you.

This concludes the series. Please notice that many simplifications have been made, and much circuit theory bypassed in order to keep the series simple. Further theory and information can be obtained in a good transistor manual or even the ARRL handbook. You should find these sources much more readable, now that you have achieved "solid status"!

73 and good luck.

### COMING EVENTS

Miami Hambores	Jan. 24-25
QFN GN NHN meeting, Miami	24
FSBA meeting, Miami	24
National S.E.T.	28-31
Florida Qso Party	Apr. 3-4



### GLOSSARY OF RADIO TERMS

**AMPLITUDE:** The maximum instantaneous value of an alternating voltage or current, measured in either the positive or negative direction.

**AMPLITUDE DISTORTION:** The changing of a waveshape so that it is no longer proportional to its original form. Also known as harmonic distortion.

**AMPLITUDE MODULATION:** The process of

changing the amplitude of an RF carrier wave in accordance with the variations of an AF wave.

A good intention clothes itself with sudden power.

—Emerson

One thing about listening to other people's troubles is that it takes your mind off your own.



WE WOULD like to take this opportunity to thank all of you who sent us Holiday Greetings. We wish we could acknowledge each one personally, however since that is impossible all of us would like to wish you the very best of SEASONS GREETINGS. THE CLARK FAMILY.